

UNITED STATES DEPARTMENT OF COMMERCE

Patent and Trademark Office

COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

DEAD/FACE-1994

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.
08/19/99, 669			

EXAMINER	
ART UNIT	PAPER NUMBER
	25

DATE MAILED:

Please find below a communication from the EXAMINER in charge of this application

Commissioner of Patents

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37CFR 1.821 through 1.825 for the reasons set forth in the attached sheets.

1. On June 7, 1999, Applicant filed a new CRF. However, the CRF is defective for the reasons set forth in the attached sheets. Applicant is required to file a new CRF and paper copy of CRF.

Applicant is given ONE MONTH, or THIRTY DAYS, whichever is longer, from the mailing date of this letter within which to comply with the sequence rules, 37 CFR 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). In no case may an applicant extend the period for reply beyond the SIX MONTH statutory period. Direct the reply to the undersigned. Applicant is requested to return a copy of the attached Notice to Comply with the reply.

Martha T. Lubet

TC
THOMAS M. CURNITZCHAK
PRIMARY EXAMINER
GROUP 1800

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821 - 1.825 for the following reason(s):

☒ 1. This application clearly fails to comply with the requirements of 37 CFR 1.821 - 1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990. *SEE ATTACHED SHEETS*

☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 CFR 1.821(c).

☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e).

☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing."

☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CFR 1.825(d).

☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e).

☐ 7.

Other: _____

Applicant must provide:

☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing"

☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification

☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 CFR 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d)

For questions regarding compliance with these requirements, please contact:

For Rules Interpretation, call (703) 308-1123

For CRF submission help, call (703) 308-4212

For PatentIn software help, call (703) 557-0400

Please return a copy of this notice with your response.

Gambel

CRF Errors Corrected by the STIC Systems Branch

1644

Serial Number: 08/819,6690

CRF Processing Date: 10/7/99

Edited by: AE

Verified by: AE (STIC staff)

☐

Changed a file from non-ASCII to ASCII

☐

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐

Edited a format error in the Current Application Data section, specifically:

ENTERED

☐

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other #25

☐

Added the mandatory heading and subheadings for "Current Application Data".

☐

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

☐

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

☒

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: 8, 24

☐

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☒

Inserted colons after headings/subheadings. Headings edited included:

(B) TYPE (Aug 17)

☐

Deleted extra, invalid, headings used by an applicant, specifically:

☐

Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____

☐

Inserted mandatory headings, specifically: _____

☐

Corrected an obvious error in the response, specifically: _____

☐

Edited identifiers where upper case is used but lower case is required, or vice versa.

☐

Corrected an error in the Number of Sequences field, specifically: _____

☐

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐

Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐

Other: _____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/819,669DDATE: 10/07/1999
TIME: 12:45:40

INPUT SET: S33581.raw

This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.

Does Not Comply
Corrected Diskette Needed

SEQUENCE LISTING

- 1
2
3 (1) General Information:
4
5 (i) APPLICANTS: Boon-Falleur, Thierry; Van der Bruggen, Thierry;
6 Van den Eynde, Beno t; Van Pel, Aline; De Plaen, Etienne;
7 Lurquin, Christophe; Chomez, Patrick; Traversari, Catia
8
9 (ii) TITLE OF INVENTION: Tumor Rejection Antigen Precursors, Tumor
10 Rejection Antigens and Uses Thereof
11
12 (iii) NUMBER OF SEQUENCES: 26
13
14 (iv) CORRESPONDENCE ADDRESS:
15 (A) ADDRESSEE: Fulbright & Jaworski LLP
16 (B) STREET: 666 Fifth Avenue
17 (C) CITY: New York City
18 (D) STATE: New York
19 (E) COUNTRY: USA
20 (F) ZIP: 10103
21
22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
24 (B) COMPUTER: IBM
25 (C) OPERATING SYSTEM: PC-DOS
26 (D) SOFTWARE: Wordperfect
27
28 (vi) CURRENT APPLICATION DATA:
29 (A) APPLICATION NUMBER: 08/819,669
30 (B) FILING DATE: 17-March-1997
31 (C) CLASSIFICATION: 435
32
33 (vii) PRIOR APPLIATION DATA:
34 (A) APPLICATION NUMBER: 08/142,368
35 (B) FILING DATE: 02-MAY-1994
36
37 (vii) PRIOR APPLICATION DATA:
38 (A) APPLICATION NUMBER: PCT/US92/04354
39 (B) FILING DATE: 22-MAY-1992
40
41 (vii) PRIOR APPLICATION DATA:
42 (A) APPLICATION NUMBER: 07/807,043
43 (B) FILING DATE: 12-DECEMBER-1991
44
45 (vii) PRIOR APPLICATION DATA:

--> a(

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/819,669DDATE: 10/07/1999
TIME: 12:45:40

INPUT SET: S33581.raw

46 (A) APPLICATION NUMBER: 07/764,364
47 (B) FILING DATE: 23-SEPTEMBER-1991
48
49 (vii) PRIOR APPLICATION DATA:
50 (A) APPLICATION NUMBER: 07/728,838
51 (b) FILING DATE: 9-JULY-1991
52
53 (vii) PRIOR APPLICATION DATA:
54 (A) APPLICATION NUMBER: 07/705,702
55 (B) FILING DATE: 23-May-1991
56
57 (viii) ATTORNEY/AGENT INFORMATION:
58 (A) NAME: Hanson, Norman D.
59 (B) REGISTRATION NUMBER: 30,946
60 (C) REFERENCE/DOCKET NUMBER: LUD 5253.5-US
61
62 (ix) TELECOMMUNICATION INFORMATION:
63 (A) TELEPHONE: (212)318-3168
64 (B) TELEFAX: (212)752-5958
65
66
67

ERRORED SEQUENCES FOLLOW:

398 (2) INFORMATION FOR SEQ ID NO: 8:
399 (i) SEQUENCE CHARACTERISTICS:
400 (A) LENGTH: 5674 base pairs
401 (B) TYPE: nucleic acid
402 (C) STRANDEDNESS: single
403 (D) TOPOLOGY: linear
404 (ii) MOLECULE TYPE: genomic DNA
405 (ix) FEATURE:
406 (A) NAME/KEY: MAGE-1 gene
407 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
408
409

410	CCCGGGGCAC	CACTGGCATC	CCTCCCCCTA	CCACCCCCAA	TCCCTCCCTT	50
411	TACGCCACCC	ATCCAAACAT	CTTCACGCTC	ACCCCCAGCC	CAAGCCAGGC	100
412	AGAATCCGGT	TCCACCCCTG	CTCTCAACCC	AGGGAAGCCC	AGGTGCCCAG	150
413	ATGTGACGCC	ACTGACTTGA	GCATTAGTGG	TTAGAGAGAA	GCGAGGTTTT	200
414	CGGTCTGAGG	GGCGGCTTGA	GATCGGTGGA	GGGAAGCGGG	CCCAGCTCTG	250
415	TAAGGAGGCA	AGGTGACATG	CTGAGGGAGG	ACTGAGGACC	CACTTACCCC	300
416	AGATAGAGGA	CCCCAAATAA	TCCCTTCATG	CCAGTCCTGG	ACCATCTGGT	350
417	GGTGGAATTC	TCAGGCTGGG	CCACCCCCAG	CCCCCTTGCT	GCTTAAACCA	400
418	CTGGGGACTC	GAAGTCAGAG	CTCCGTGTGA	TCAGGGAAGG	GCTGCTTAGG	450
419	AGAGGGCAGC	GTCCAGGCTC	TGCCAGACAT	CATGCTCAGG	ATTCTCAAGG	500
420	AGGGCTGAGG	GTCCCTAAGA	CCCCACTCCC	GTGACCCAAC	CCCCACTCCA	550
421	ATGCTCACTC	CCGTGACCCA	ACCCCTCTT	CATTGTCAAT	CCAACCCCCA	600
422	CCCCACATCC	CCCACCCCAT	CCCTCAACCC	TGATGCCCAT	CCGCCAGCC	650

RAW SEQUENCE LISTING PATENT APPLICATION US/08/819,669D

DATE: 10/07/1999
TIME: 12:45:41

INPUT SET: S33581.raw

423	ATTCCACCCT	CACCCCCACC	CCCCCCCCCA	CGCCCCACTCC	CACCCCCACC	700
424	CAGGCAGGAT	CCGGTTCCCCG	CCAGGAAACA	TCCGGGTGCC	CGGATGTGAC	750
425	GCCACTGACT	TGCGCATTGT	GGGGCAGAGA	GAAGCGAGGT	TTCCATTCTG	800
426	AGGGACGGCG	TAGAGTTCGG	CCGAAGGAAC	CTGACCCAGG	CTCTGTGAGG	850
427	AGGCAAGGTG	AGAGGCTGAG	GGAGGACTGA	GGACCCCGCC	ACTCCAAATA	900
428	GAGAGCCCCA	AATATTCCAG	CCCCGCCCTT	GCTGCCAGCC	CTGGCCCCACC	950
429	CGCGGGAAGA	CGTCTCAGCC	TGGGCTGCCC	CCAGACCCCT	GCTCCAAAAG	1000
430	CCTTGAGAGA	CACCAGGTTC	TTCTCCCCAA	GCTCTGGAAT	CAGAGGTTGC	1050
431	TGTGACCAGG	GCAGGACTGG	TTAGGAGAGG	GCAGGGCACA	GGCTCTGCCA	1100
432	GGCATCAAGA	TCAGCACCCA	AGAGGGAGGG	CTGTGGGCCC	CCAAGACTGC	1150
433	ACTCCAATCC	CCACTCCCAC	CCCATTGCGA	TTCCCATTCC	CCACCCAACC	1200
434	CCCATCTCCT	CAGCTACACC	TCCACCCCCA	TCCCTACTCC	TACTCCGTCA	1250
435	CCTGACCACC	ACCCTCCAGC	CCCAGCACCA	GCCCCAACCC	TTCTGCCACC	1300
436	TCACCTCAC	TGCCCCCAAC	CCCACCTCA	TCTCTCAT	GTGCCCCACT	1350
437	CCCATCGCCT	CCCCCATTCT	GGCAGAATCC	GGTTTGCCCC	TGCTCTCAAC	1400
438	CCAGGGAAGC	CCTGGTAGGC	CCGATGTGAA	ACCACTGACT	TGAACCTCAC	1450
439	AGATCTGAGA	GAAGCCAGGT	TCATTTAATG	GTTCTGAGGG	GCGGCTTGAG	1500
440	ATCCACTGAG	GGGAGTGGTT	TTAGGCTCTG	TGAGGAGGCA	AGGTGAGATG	1550
441	CTGAGGGAGG	ACTGAGGAGG	CACACACCCC	AGGTAGATGG	CCCCAAAATG	1600
442	ATCCAGTACC	ACCCTGCTG	CCAGCCCTGG	ACCACCCGGC	CAGGACAGAT	1650
443	GTCTCAGCTG	GACCACCCCC	CGTCCCCTCC	CACTGCCACT	TAACCCACAG	1700
444	GGCAATCTGT	AGTCATAGCT	TATGTGACCG	GGGCAGGGTT	GGTCAGGAGA	1750
445	GGCAGGGCCC	AGGCATCAAG	GTCCAGCATC	CGCCCGGCAT	TAGGGTCAGG	1800
446	ACCCTGGGAG	GGAACTGAGG	GTTCCCCACC	CACACCTGTC	TCCTCATCTC	1850
447	CACCGCCACC	CCACTCACAT	TCCCATACCT	ACCCCTTACC	CCCAACCTCA	1900
448	TCTTGTCAGA	ATCCCTGCTG	TCAACCCACG	GAAGCCACGG	GAATGGCGGC	1950
449	CAGGCACTCG	GATCTTGACG	TCCCCATCCA	GGGTCTGATG	GAGGGAAGGG	2000
450	GCTTGAACAG	GGCCTCAGGG	GAGCAGAGGG	AGGGCCCTAC	TGCGAGATGA	2050
451	GGGAGGCCTC	AGAGGACCCA	GCACCCTAGG	ACACCGCACC	CCTGTCTGAG	2100
452	ACTGAGGCTG	CCACTTCTGG	CCTCAAGAAT	CAGAACGATG	GGGACTCAGA	2150
453	TTGCATGGGG	GTGGGACCCA	GGCCTGCAAG	GCTTACGCGG	AGGAAGAGGA	2200
454	GGGAGGACTC	AGGGGACCTT	GGAATCCAGA	TCAGTGTGGA	CCTCGGCCCT	2250
455	GAGAGGTCCA	GGGCACGGTG	GCCACATATG	GCCCATATTT	CCTGCATCTT	2300
456	TGAGGTGACA	GGACAGAGCT	GTTGGTCTGAG	AAGTGGGGCC	TCAGGTCAAC	2350
457	AGAGGGAGGA	GTTCCAGGAT	CCATATGGCC	CAAGATGTGC	CCCCTTTCATG	2400
458	AGGACTGGGG	ATATCCCCGG	CTCAGAAAGA	AGGGACTCCA	CACAGTCTGG	2450
459	CTGTCCCCTT	TTAGTAGCTC	TAGGGGGACC	AGATCAGGGA	TGGCGGTATG	2500
460	TTCCATTCTC	ACTTGTACCA	CAGGCAGGAA	GTTGGGGGGC	CCTCAGGGAG	2550
461	ATGGGGTCTT	GGGGTAAAGG	GGGGATGTCT	ACTCATGTCA	GGGAATTGGG	2600
462	GGTTGAGGAA	GCACAGGCGC	TGGCAGGAAT	AAAGATGAGT	GAGACAGACA	2650
463	AGGCTATTGG	AATCCACACC	CCAGAACCAA	AGGGGTCAGC	CCTGGACACC	2700
464	TCACCCAGGA	TGTGGCTTCT	TTTTCACTCC	TGTTTCCAGA	TCTGGGGCAG	2750
465	GTCAGGACCT	CATTCTCAGA	GGGTGACTCA	GGTCAACGTA	GGGACCCCCA	2800
466	TCTGGTCTAA	AGACAGAGCG	GTCCCAGGAT	CTGCCATGCG	TTCGGGTGAG	2850
467	GAACATGAGG	GAGGACTGAG	GGTACCCAG	GACCAGAACA	CTGAGGGAGA	2900
468	CTGCACAGAA	ATCAGCCCTG	CCCCTGCTGT	CACCCAGAG	AGCATGGGCT	2950
469	GGGCCGTCTG	CCGAGGTCCT	TCCGTTATCC	TGGGATCATT	GATGTCAGGG	3000
470	ACGGGGAGGC	CTTGGTCTGA	GAAGGCTGCG	CTCAGGTCAG	TAGAGGGAGC	3050
471	GTCCCAGGCC	CTGCCAGGAG	TCAAGGTGAG	GACCAAGCGG	GCACCTCACC	3100
472	CAGGACACAT	TAATTCCAAT	GAATTTTGAT	ATCTCTTGCT	GCCCTTCCCC	3150
473	AAGGACCTAG	GCACGTGTGG	CCAGATGTTT	GTCCCCCTCT	GTCCTTCCAT	3200
474	TCCTTATCAT	GGATGTGAAC	TCTTGATTTG	GATTTCTCAG	ACCAGCAAAA	3250
475	GGGCAGGATC	CAGGCCCTGC	CAGGAAAAAT	ATAAGGGCCC	TGCGTGAGAA	3300

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/819,669DDATE: 10/07/1999
TIME: 12:45:41

INPUT SET: S33581.raw

476	CAGAGGGGGT	CATCCACTGC	ATGAGAGTGG	GGATGTCACA	GAGTCCAGCC	3350
477	CACCCTCCTG	GTAGCACTGA	GAAGCCAGGG	CTGTGCTTGC	GGTCTGCACC	3400
478	CTGAGGGCCC	GTGGATTCTT	CTTCCTGGAG	CTCCAGGAAC	CAGGCAGTGA	3450
479	GGCCTTGGTC	TGAGACAGTA	TCCTCAGGTC	ACAGAGCAGA	GGATGCACAG	3500
480	GGTGTGCCAG	CAGTGAATGT	TTGCCCTGAA	TGCACACCAA	GGGCCCCACC	3550
481	TGCCACAGGA	CACATAGGAC	TCCACAGAGT	CTGGCCTCAC	CTCCCTACTG	3600
482	TCAGTCCTGT	AGAATCGACC	TCTGCTGGCC	GGCTGTACCC	TGAGTACCCT	3650
483	CTCACTTCCT	CCTTCAGGTT	TTCAGGGGAC	AGGCCAACCC	AGAGGACAGG	3700
484	ATTCCCTGGA	GGCCACAGAG	GAGCACCAAG	GAGAAGATCT	GTAAGTAGGC	3750
485	CTTTGTTAGA	GTCTCCAAGG	TTCAGTTCTC	AGCTGAGGCC	TCTCACACAC	3800
486	TCCCTCTCTC	CCCAGGCCTG	TGGGTCTTCA	TTGCCCAGCT	CCTGCCCACA	3850
487	CTCCTGCCTG	CTGCCCTGAC	GAGAGTCATC			3880
488	ATG TCT CTT	GAG CAG AGG	AGT CTG CAC	TGC AAG CCT	GAG GAA	3922
489	GCC CTT GAG	GCC CAA CAA	GAG GCC CTG	GGC CAC GTG	TGT GTG	3964
490	CAG GCT GCC	ACC TCC TCC	TCT CCT CTG	GTC CTG	GGC ACC	4006
491	CTG GAG GAG	GTG CCC ACT	GCT GGG TCA	ACA GAT CCT	CCC CAG	4048
492	AGT CCT CAG	GGA GCC TCC	GCC TTT CCC	ACT ACC ATC	AAC TTC	4090
493	ACT CGA CAG	AGG CAA CCC	AGT GAG GGT	TCC AGC AGC	CGT GAA	4132
--> 494	GAG GAG GGG	CCA AGC ACC	TCT TGT ATC	CTG GAG TCC	TTG TTC	4184 4174
--> 495	CGA GCA GTA	ATC ACT AAG	AAG GTG GCT	GAT TTG GTT	GGT TTT	4216 OK
496	CTG CTC CTC	AAA TAT CGA	GCC AGG GAG	CCA GTC ACA	AAG GCA	4258
497	GAA ATG CTG	GAG AGT GTC	ATC AAA AAT	TAC AAG CAC	TGT TTT	4300
498	CCT GAG ATC	TTC GGC AAA	GCC TCT GAG	TCC TTG CAG	CTG GTC	4342
499	TTT GGC ATT	GAC GTG AAG	GAA GCA GAC	CCC ACC GGC	CAC TCC	4384
500	TAT GTC CTT	GTC ACC TGC	CTA GGT CTC	TCC TAT GAT	GGC CTG	4426
501	CTG GGT GAT	AAT CAG ATC	ATG CCC AAG	ACA GGC TTC	CTG ATA	4468
502	ATT GTC CTG	GTC ATG ATT	GCA ATG GAG	GGC GGC CAT	GCT CCT	4510
503	GAG GAG GAA	ATC TGG GAG	GAG CTG AGT	GTG ATG GAG	GTG TAT	4552
504	GAT GGG AGG	GAG CAC AGT	GCC TAT GGG	GAG CCC AGG	AAG CTG	4594
505	CTC ACC CAA	GAT TTG GTG	CAG GAA AAG	TAC CTG GAG	TAC GGC	4636
--> 506	AGG TGC CGG	ACA GTG ATC	CCG CAC GCT	ATG AGT TCC	TGT GGG	4688 4678
--> 507	GTC CAA GGG	CCC TCG CTG	AAA CCA GCT	ATG TGA		4711 OK
508	AAGTCCTTGA	GTATGTGATC	AAGGTCAGTG	CAAGAGTTC		4750
509	GCTTTTCTT	CCCATCCCTG	CGTGAAGCAG	CTTTGAGAGA	GGAGGAAGAG	4800
510	GGAGTCTGAG	CATGAGTTGC	AGCCAAGGCC	AGTGGGAGGG	GGACTGGGCC	4850
511	AGTGCACCTT	CCAGGGCCGC	GTCCAGCAGC	TTCCCCTGCC	TCGTGTGACA	4900
512	TGAGGCCCAT	TCTTCACTCT	GAAGAGAGCG	GTCAGTGTTT	TCAGTAGTAG	4950
513	GTTTCTGTTC	TATTGGGTGA	CTTGAGATT	TATCTTTGTT	CTCTTTTGGA	5000
514	ATTGTTCAAA	TGTTTTTTTT	TAAGGGATGG	TTGAATGAAC	TTCAGCATCC	5050
515	AAGTTTATGA	ATGACAGCAG	TCACACAGTT	CTGTGTATAT	AGTTTAAGGG	5100
516	TAAGAGTCTT	GTGTTTTATT	CAGATTGGGA	AATCCATTCT	ATTTTGTGAA	5150
517	TTGGGATAAT	AACAGCAGTG	GAATAAGTAC	TTAGAAATGT	GAAAAATGAG	5200
518	CAGTAAAATA	GATGAGATAA	AGAACTAAAG	AAATTAAGAG	ATAGTCAATT	5250
519	CTTGCCCTTAT	ACCTCAGTCT	ATTCTGTAAA	ATTTTAAAG	ATATATGCAT	5300
520	ACCTGGATTT	CCTTGGCTTC	TTTGAGAATG	TAAGAGAAAAT	TAAATCTGAA	5350
521	TAAAGAATTC	TTCTGTTCAT	CTGGCTCTTT	TCTTCTCCAT	GCACTGAGCA	5400
522	TCTGCTTTTT	GGAAGGCCCT	GGGTTAGTAG	TGGAGATGCT	AAGGTAAGCC	5450
523	AGACTCATAC	CCACCCATAG	GGTCGTAGAG	TCTAGGAGCT	GCAGTCACGT	5500
524	AATCGAGGTG	GCAAGATGTC	CTCTAAAGAT	GTAGGGAAAA	GTGAGAGAGG	5550
525	GGTGAGGGTG	TGGGGCTCCG	GGTGAGAGTG	GTGGAGTGTC	AATGCCCTGA	5600
526	GCTGGGGCAT	TTTGGGCTTT	GGGAAACTGC	AGTTCCTTCT	GGGGGAGCTG	5650
527	ATTGTAATGA	TCTTGGGTGG	ATCC			5674
528						

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/819,669DDATE: 10/07/1999
TIME: 12:45:41

INPUT SET: S33581.raw

529
530

--> 1003 (2) INFORMATION FOR SEQ ID NO: 17:
1004 (i) SEQUENCE CHARACTERISTICS:
1005 (A) LENGTH: 2305 base pairs
1006 (B) TYPE: nucleic acid
1007 (C) STRANDEDNESS: single
1008 (D) TOPOLOGY: linear
1009 (ii) MOLECULE TYPE: genomic DNA
1010 (ix) FEATURE:
1011 (A) NAME/KEY: MAGE-51 gene
1012 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
1013
1014
1015
1016 GGATCCAGGC CTTGCCAGGA GAAAGGTGAG GGCCCTGTGT GAGCACAGAG 50
1017 GGGACCATTG ACCCAAGAG GGTGGAGACC TCACAGATTC CAGCCTACCC 100
1018 TCCTGTTAGC ACTGGGGGCC TGAGGCTGTG CTTGCAGTCT GCACCCTGAG 150
1019 GGCCCATGCA TTCCTCTTCC AGGAGCTCCA GGAAACAGAC ACTGAGGCCT 200
1020 TGGTCTGAGG CCGTGCCCTC AGGTCACAGA GCAGAGGAGA TGCAGACGTC 250
1021 TAGTGCCAGC AGTGAACGTT TGCCTTGAAT GCACACTAAT GGCCCCCATC 300
1022 GCCCCAGAAC ATATGGGACT CCAGAGCACC TGGCCTCACC CTCTCTACTG 350
1023 TCAGTCCTGC AGAATCAGCC TCTGCTTGCT TGTGTACCCT GAGGTGCCCT 400
1024 CTCACTTTTT CCTTCAGGTT CTCAGGGGAC AGGCTGACCA GGATCACCAG 450
1025 GAAGCTCCAG AGGATCCCCA GGAGGCCCTA GAGGAGCACC AAAGGAGAAG 500
1026 ATCTGTAAGT AAGCCTTTGT TAGAGCCTCC AAGGTTCACT TTTTAGCTGA 550
1027 GGCTTCTCAC ATGCTCCCTC TCTCTCCAGG CCAGTGGGTC TCCATTGCCC 600
1028 AGCTCCTGCC CACACTCCTG CCTGTTGCGG TGACCAGAGT CGTC 644
1029 ATG TCT CTT GAG CAG AAG AGT CAG CAC TGC AAG CCT GAG GAA 686
1030 GGC CTT GAC ACC CAA GAA GAG CCC TGG GCC TGG TGG GTG TGC 728
1031 AGG CTG CCA CTA CTG AGG AGC AGG AGG CTG TGT CCT CCT CCT 770
1032 CTC CTC TGG TCC CAG GCA CCC TGG GGG AGG TGC CTG CTG CTG 812
1033 GGT CAC CAG GTC CTC TCA AGA GTC CTC AGG GAG CCT CCG CCA 854
1034 TCC CCA CTG CCA TCG ATT TCA CTC TAT GGA GGC AAT CCA TTA 896
1035 AGG GCT CCA GCA ACC AAG AAG AGG AGG GGC CAA GCA CCT CCC 938
1036 CTG ACC CAG AGT CTG TGT TCC GAG CAG CAC TCA GTA AGA AGG 980
1037 TGG CTG ACT TGA 992
1038 TTCATTTTCT GTCCTCAAG TATTAAGTCA AGGAGCCGGT CACAAAGGCA 1042
1039 GAAATGCTGG AGAGCGTCAT CAAAATTAC AAGCGCTGCT TTCCTGAGAT 1092
1040 CTTTCGGCAA GCCTCCGAGT CCTTGCAGCT GGTCTTTGGC ATTGACGTGA 1142
1041 AGGAAGCGGA CCCCACCAGC AACACCTACA CCCTTGTCTC CTGCCTGGGA 1192
1042 CTCCTATGAT GGCCTGGTGG TTTAATCAGA TCATGCCCAA GACGGGCCTC 1242
1043 CTGATAATCG TCTTGGGCAT GATTGCAATG GAGGGCAAAT GCGTCCCTGA 1292
1044 GGAGAAAATC TGGGAGGAGC TGGGTGTGAT GAAGGTGTAT GTTGGGAGGG 1342
1045 AGCACAGTGT CTGTGGGGAG CCCAGGAAGC TGCTCACCCA AGATTTGGTG 1392
1046 CAGGAAAACCT ACCTGGAGTA CCGCAGGTGC CCAGCAGTGA TCCCATATGC 1442
1047 TATGAGTTAC TGTGGGGTCC AAGGGCACTC GCTGCTTGAA AGTACTGGAG 1492
1048 CACGTGGTCA GGGTCAATGC AAGAGTTCTC ATTTCTTACC CATCCCTGCA 1542
1049 TGAAGCAGCT TTGAGAGAGG AGGAAGAGGG AGTCTGAGCA TGAGCTGCAG 1592
1050 CCAGGGCCAC TGCGAGGGGG GCTGGGCCAG TGCACCTTCC AGGGCTCCGT 1642
1051 CCAGTAGTTT CCCCTGCCTT AATGTGACAT GAGGCCCATT CTTCTCTCTT 1692
1052 TGAAGAGAGC AGTCAACATT CTTAGTAGTG GGTTTCTGTT CTATTGGATG 1742

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/819,669DDATE: 10/07/1999
TIME: 12:45:42

INPUT SET: S33581.raw

1053	ACTTTGAGAT	TTGTCTTTGT	TTCCTTTTGG	AATTGTTCAA	ATGTTCCCTT	1792
1054	TAATGGGTGG	TTGAATGAAC	TTCAGCATTC	AAATTTATGA	ATGACAGTAG	1842
1055	TCACACATAG	TGCTGTTTAT	ATAGTTTAGG	AGTAAGAGTC	TTGTTTTTTA	1892
1056	TTCAGATTGG	GAAATCCATT	CCATTTTGTG	AATTGGGACA	TAGTTACAGC	1942
1057	AGTGGGAATA	GTATTCATTT	AGAAATGTGA	ATGAGCAGTA	AAACTGATGA	1992
1058	GATAAAGAAA	TTAAAAGATA	TTTAATTCTT	GCCTTATACT	CAGTCTATTC	2042
1059	GGTAAAATTT	TTTTTTAAAA	ATGTGCATAC	CTGGATTTC	TTGGCTTCTT	2092
1060	TGAGAATGTA	AGACAAATTA	AATCTGAATA	AATCATTCCT	CCTGTTCCT	2142
1061	GGCTCATTTA	TTCTCTATGC	ACTGAGCATT	TGCTCTGTGG	AAGGCCCTGG	2192
1062	GTTAATAGTG	GAGATGCTAA	GGTAAGCCAG	ACTCACCCT	ACCCACAGGG	2242
1063	TAGTAAAGTC	TAGGAGCAGC	AGTCATATAA	TTAAGGTGGA	GAGATGCCCT	2292
1064	CTAAGATGTA	GAG				2305
1065						
1066						
1067						
1068						

1328	(2) INFORMATION FOR SEQ ID NO: 24:
1329	(i) SEQUENCE CHARACTERISTICS:
1330	(A) LENGTH: 2150 base pairs
1331	(B) TYPE: nucleic acid
1332	(C) STRANDEDNESS: single

08/8/9,6690

(D) TOPOLOGY: linear

1334 (ii) MOLECULE TYPE: genomic DNA

1335 (ix) FEATURE:

1336 (A) NAME/KEY: smage-I

1337 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

1338

1339

1340

1341	TCTGTCTGCA TATGCCTCCA CTTGTGTGTA GCAGTCTCAA ATGGATCTCT	50
1342	CTCTACAGAC CTCTGTCTGT GTCTGGCACC CTAAGTGGCT TTGCATGGGC	100
1343	ACAGGTTTCT GCCCCTGCAT GGAGCTTAAA TAGATCTTTC TCCACAGGCC	150
1344	TATACCCCTG CATTGTAAGT TTAAGTGGCT TTATGTGGAT ACAGGTCTCT	200
1345	GCCCTTGAT GCAGGCCTAA GTTTTCTGT CTGCTTAACC CCTCCAAGTG	250
1346	AAGCTAGTGA AAGATCTAAC CCACTTTTGG AAGTCTGAAA CTAGACTTTT	300
1347	ATGCAGTGGC CTAACAAGTT TTAATTTCTT CCACAGGGTT TGCAGAAAAG	350
1348	AGCTTGATCC ACGAGTTCAG AAGTCCTGGT ATGTTCCTAG AAAG	394
1349	ATG TTC TCC TGG AAA GCT TCA AAA GCC AGG TCT CCA TTA AGT	436
1350	CCA AGG TAT TCT CTA CCT GGT AGT ACA GAG GTA CTT ACA GGT	478
1351	TGT CAT TCT TAT CCT TCC AGA TTC CTG TCT GCC AGC TCT TTT	520
--> 1352	ACT TCA GCC CTG AGC ACA GTC AAC ATG CCT AGG GGT CAA AAG	565
--> 1353	AGT AAG ACC CGC TCC CGT GCA AAA CGA CAG CAG TCA CGC AGG	604
1354	GAG GTT CCA GTA GTT CAG CCC ACT GCA GAG GAA GCA GGG TCT	646
1355	TCT CCT GTT GAC CAG AGT GCT GGG TCC AGC TTC CCT GGT GGT	688
1356	TCT GCT CCT CAG GGT GTG AAA ACC CCT GGA TCT TTT GGT GCA	730
1357	GGT GTA TCC TGC ACA GGC TCT GGT ATA GGT GGT AGA AAT GCT	772
1358	GCT GTC CTG CCT GAT ACA AAA AGT TCA GAT GGC ACC CAG GCA	814
1359	GGG ACT TCC ATT CAG CAC ACA CTG AAA GAT CCT ATC ATG AGG	856
1360	AAG GCT AGT GTG CTG ATA GAA TTC CTG CTA GAT AAA TTT AAG	898
1361	ATG AAA GAA GCA GTT ACA AGG AGT GAA ATG CTG GCA GTA GTT	940
1362	AAC AAG AAG TAT AAG GAG CAA TTC CCT GAG ATC CTC AGG AGA	982
1363	ACT TCT GCA CGC CTA GAA TTA GTC TTT GGT CTT GAG TTG AAG	1024

565 562

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/819,669DDATE: 10/07/1999
TIME: 12:45:42

INPUT SET: S33581.raw

1364	GAA ATT GAT CCC AGC ACT CAT TCC TAT TTG CTG GTA GGC AAA	1066
1365	CTG GGT CTT TCC ACT GAG GGA AGT TTG AGT AGT AAC TGG GGG	1108
1366	TTG CCT AGG ACA GGT CTC CTA ATG TCT GTC CTA GGT GTG ATC	1150
1367	TTC ATG AAG GGT AAC CGT GCC ACT GAG CAA GAG GTC TGG CAA	1192
1368	TTT CTG CAT GGA GTG GGG GTA TAT GCT GGG AAG AAG CAC TTG	1234
1369	ATC TTT GGC GAG CCT GAG GAG TTT ATA AGA GAT GTA GTG CGG	1276
--> 1370	GAA AAT TAC CTG GAG TAC CGC CAG GTA CCT GGC AGT GAT CCC	1314 1318
--> 1371	CCA AGC TAT GAG TTC CTG TGG GGA CCC AGA GCC CAT GCT GAA	1360 ok
1372	ACA ACC AAG ATG AAA GTC CTG GAA GTT TTA GCT AAA GTC AAT	1402
1373	GGC ACA GTC CCT AGT GCC TTC CCT AAT CTC TAC CAG TTG GCT	1444
1374	CTT AGA GAT CAG GCA GGA GGG GTG CCA AGA AGG AGA GTT CAA	1486
1375	GGC AAG GGT GTT CAT TCC AAG GCC CCA TCC CAA AAG TCC TCT	1528
1376	AAC ATG TAG	1537
1377	TTGAGTCTGT TCTGTTGTGT TTGAAAAACA GTCAGGCTCC TAATCAGTAG	1587
1378	AGAGTTCATA GCCTACCAGA ACCAACATGC ATCCATTCTT GGCCTGTTAT	1637
1379	ACATTAGTAG AATGGAGGCT ATTTTTGTGA CTTTTCAAT GTTTGTTTAA	1687
1380	CTAAACAGTG CTTTTTGCCA TGCTTCTTGT TAACATGCATA AAGAGGTAAC	1737
1381	TGTCACTTGT CAGATTAGGA CTTGTTTTGT TATTTGCAAC AAACCTGGAAA	1787
1382	ACATTATTTT GTTTTTACTA AAACATTGTG TAACATTGCA TTGGAGAAGG	1837
1383	GATTGTCATG GCAATGTGAT ATCATACAGT GGTGAAACAA CAGTGAAGTG	1887
1384	GGAAAGTTTA TATTGTTAAT TTTGAAAATT TTATGAGTGT GATTGCTGTA	1937
1385	TACTTTTTTC TTTTTTGTAT AATGCTAAGT GAAATAAAGT TGGATTTGAT	1987
1386	GACTTTACTC AAATTCATTA GAAAGTAAAT CGTAAAACTC TATTACTTTA	2037
1387	TTATTTTCTT CAATTATGAA TTAAGCATTG GTTATCTGGA AGTTTCTCCA	2087
1388	GTAGCACAGG ATCTAGTATG AAATGTATCT AGTATAGGCA CTGACAGTGA	2137
1389	GTTATCAGAG TCT	2150
1390		
1391		
1392		

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/819,669DDATE: 10/07/1999
TIME: 12:45:42**INPUT SET: S33581.raw**

Line	Error	Original Text
31	Wrong Classification	(C) CLASSIFICATION: 435
494	# of Sequences for line conflicts w/ running total	GAG GAG GGG CCA AGC ACC TCT TGT ATC CTG GA
495	# of Sequences for line conflicts w/ running total	CGA GCA GTA ATC ACT AAG AAG GTG GCT GAT TT
506	# of Sequences for line conflicts w/ running total	AGG TGC CGG ACA GTG ATC CCG CAC GCT ATG AG
507	# of Sequences for line conflicts w/ running total	GTC CAA GGG CCC TCG CTG AAA CCA GCT ATG TG
1006	Unknown or Misplaced Identifier	(B) TYPE; nucleic acid
1352	# of Sequences for line conflicts w/ running total	ACT TCA GCC CTG AGC ACA GTC AAC ATG CCT AG
1353	# of Sequences for line conflicts w/ running total	AGT AAG ACC CGC TCC CGT GCA AAA CGA CAG CA
1370	# of Sequences for line conflicts w/ running total	GAA AAT TAC CTG GAG TAC CGC CAG GTA CCT GG
1371	# of Sequences for line conflicts w/ running total	CCA AGC TAT GAG TTC CTG TGG GGA CCC AGA GC